

# Hazardous Material Control Program Lesson Guide # 6



# HAZARDOUS MATERIAL CONTROL & MANAGEMENT PI





# OBJECTIVES: *Upon completion of this topic you will be able to:*

- Describe the Navy's hazardous material program and the command's responsibilities.
- Describe hazardous materials regulations.
- Describe the general handling, storage, and disposal requirements for the hazardous materials they use.



# Background

- Hazardous materials are used daily by every activity, in maintenance, repair and cleaning. In using hazardous materials we also produce waste.



# Background Con't

- The Navy has developed a program to comply with OSHA and EPA regulations and help minimize the amount of hazardous waste we produce. Employees who handle hazardous materials shall understand and be aware of handling, storage and disposal requirements



# *GENERAL PROVISIONS*

## *(Topics)*

- REGULATIONS
- HM INVENTORY & AUTHORIZED USE LIST
- OSHA'S HAZARD COMMUNICATION STANDARD
- MATERIAL SAFETY DATA SHEETS (MSDS's)
- LABELING & MARKING OF CONTAINERS



# GENERAL PROVISIONS (Con't)

- CONTROLS OVER HM  
ACQUISITION
- STORAGE OF HM
- RECORDKEEPING & REPORTING



# Program Responsibilities

- Shore Commands:
  - Develop and implement written plans and procedures for hazardous material control and management (HMC&M) that meet the requirements of OPNAVINST 5100.23F.





# Responsibilities

( *continued* )

- Comply with applicable Federal, state, and local laws and regulations applicable to HM and the safety and health of HW operations.
- Establish procedures to control, track, and reduce the variety and quantities of HM in use, in storage or stock, or disposed of as HW.



# Responsibilities

## ( *Continued* )

### ■ Shore Commands ( *continued* )

- Develop and distribute a MSDS for each HM produced or manufactured at the activity or it's laboratories.
- Develop an authorized use list ( *AUL* ) using an inventory that uniquely identifies and quantifies HM. It is highly recommended that the activity supply function be responsible for developing and managing the AUL.



# Responsibilities

( *Continued* )

## ■ Shore Commands ( *continued* )

- Establish procedures to ensure that all HM used at the activity is properly and appropriately labeled. Identify to NAVSUPSYSCOM via the Quality Deficiency Reporting System any shipments of unlabeled HM or HM without a MSDS.



# Responsibilities

## *(Continued)*

- Shore Commands ( *continued* )
  - Limit open market purchase of material.
  - MSDS must be obtained prior to authorization for use of new products.
  - Ensure personnel are trained per OPNAVINST 5100.23F.



# REGULATIONS

- OPNAVINST 5100.23F
  - *CHAPTER 7*
- NAVSUP PUB 573
  - *STORAGE AND HANDLING OF HAZARDOUS MATERIAL*
- The Activities Hazardous Materials Instructions



# REGULATIONS

- NAVSUPINST 4440 .128D
  - *STORAGE AND HANDLING OF COMPRESSED GASES AND LIQUIDS IN CYLINDERS*
- 29CFR1910.106
  - *FLAMMABLE & COMBUSTIBLE LIQUIDS*
- NATIONAL FIRE PROTECTION CODES
  - *NFPA 30, FLAMMABLE LIQUIDS*



# HM INVENTORY AND AUTHORIZED USE LIST

- FIRST LINE SUPERVISORS
- UPDATE ANNUALLY
- RETAIN MASTER COPIES
- CROSS-REFERENCE
- ASSIST SUPPLY OFFICER FOR INVENTORY



# OSHA'S HAZCOM STD

- 29 CFR 1910.1200
- RIGHT-TO-KNOW STANDARD
- ESTABLISH HAZCOM PROGRAM
- WRITTEN HAZCOM PLAN
- MANUFACTURER LABELS  
(CONTAINER)
- MATERIAL SAFETY DATA SHEETS





# MATERIAL SAFETY DATA SHEETS

- PROVIDES MOST DETAILED INFORMATION
- REQUIRED FOR EVERY CHEMICAL
- BE READILY AVAILABLE
- HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)



# MSDS BASIC SECTIONS

- IDENTIFICATION
- INGREDIENTS
- PHYSICAL/CHEMICAL CHARACTERISTICS
- FIRE AND EXPLOSION HAZARD



# MSDS Basic Sections (con't)

- REACTIVITY DATA
- HEALTH HAZARD DATA
- SPILL OR LEAK PROCEDURES
- SPECIAL PROTECTION
- SPECIAL PRECAUTIONS



# LABELS

- MANUFACTURER
- DOT
- NFPA
- DD FORM 2522



# MANUFACTURER LABEL

- IDENTITY OR NAME OF CHEMICAL
- WARNING OF ITS HAZARDOUS CONTENTS
- NAME AND ADDRESS OF MANUFACTURER



# *HM HAZARD RECOGNITION DOT LABELS*

■ UNITED NATIONS  
IDENTIFICATION SYSTEM



# NINE HAZARD CLASSES

- EXPLOSIVES
- GASES/FLAMMABLE & NON-FLAMMABLE
- FLAMMABLE LIQUIDS
- FLAMMABLE SOLIDS
- OXIDIZERS & ORGANIC PEROXIDE
- POISONS
- RADIATION
- CORROSIVE
- MISCELLANEOUS



**EXPLOSIVES**

**1.1A**

**1**







**FLAMMABLE**

**3**





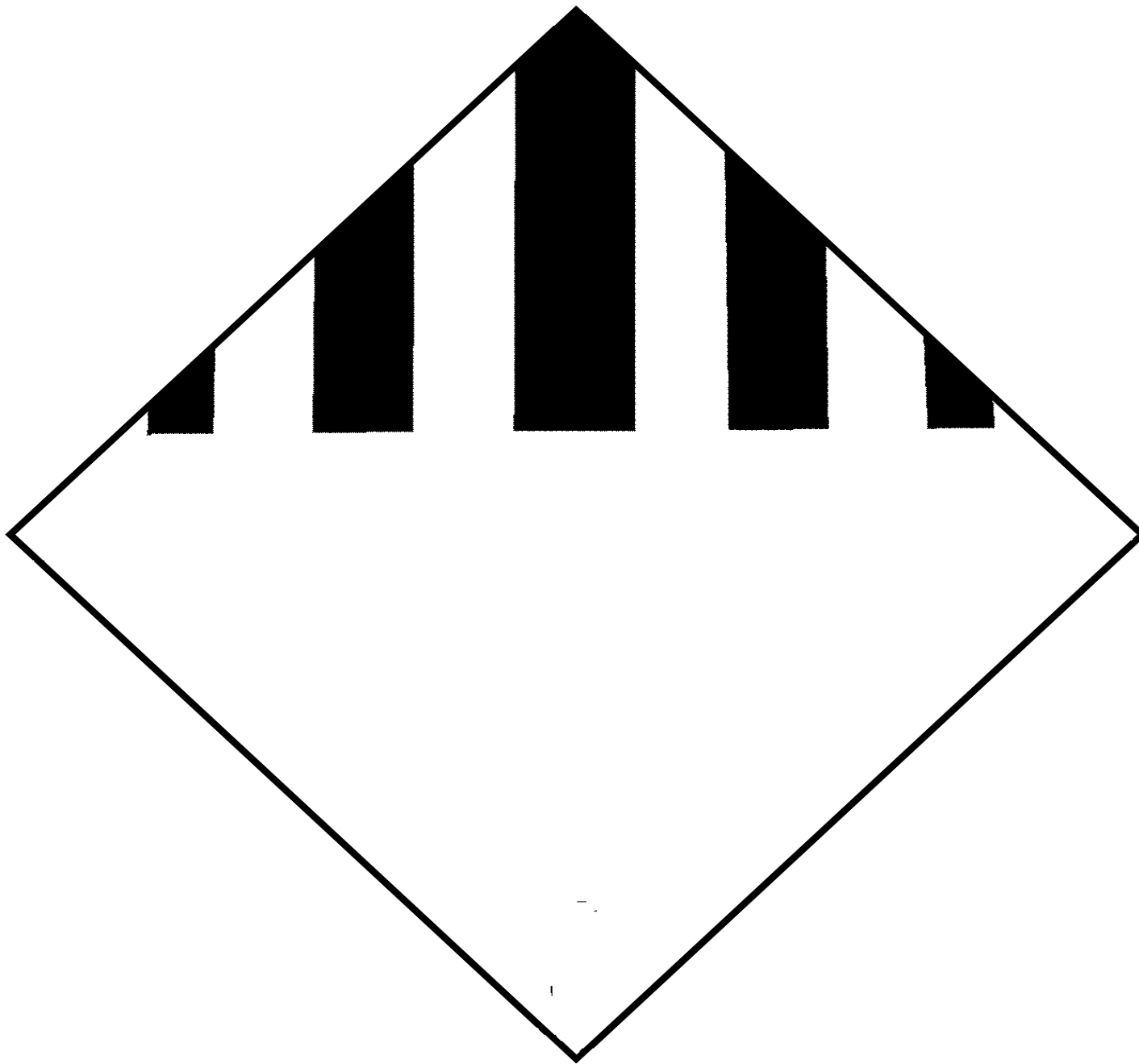


**IRRITANT**

**6**







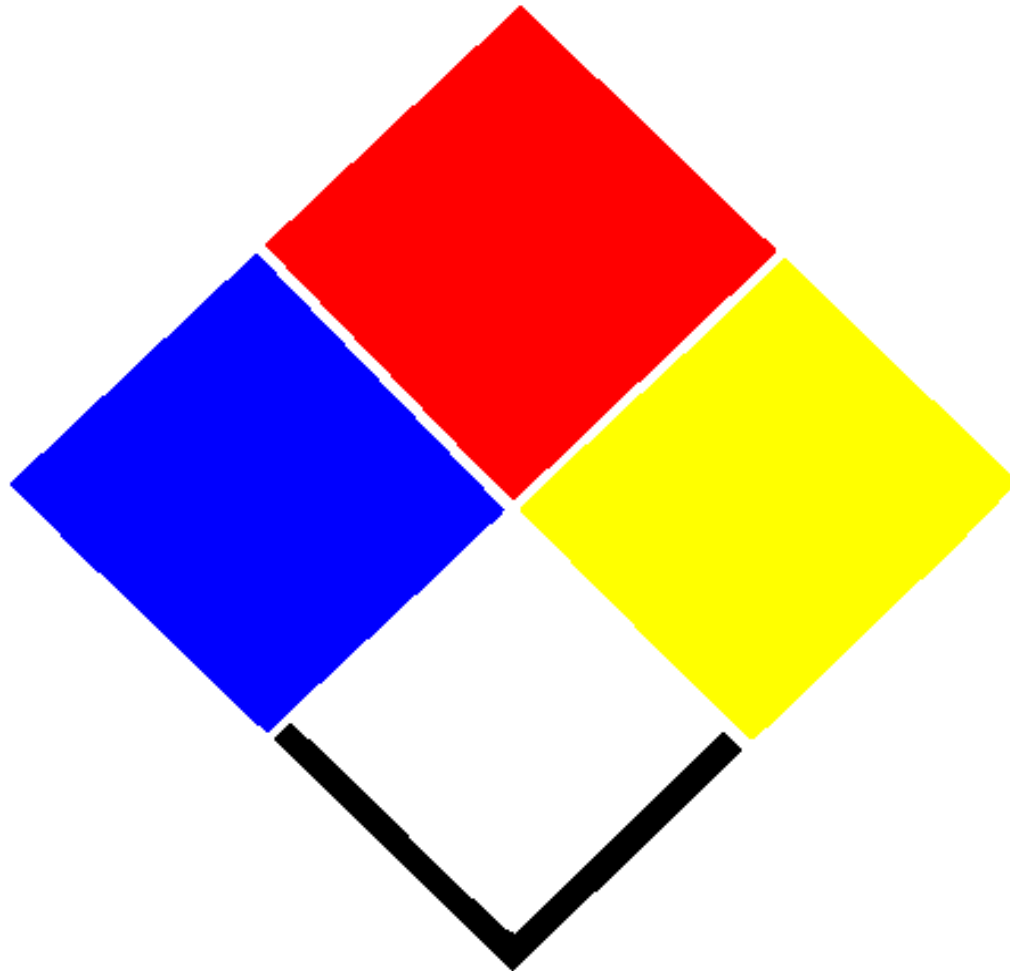


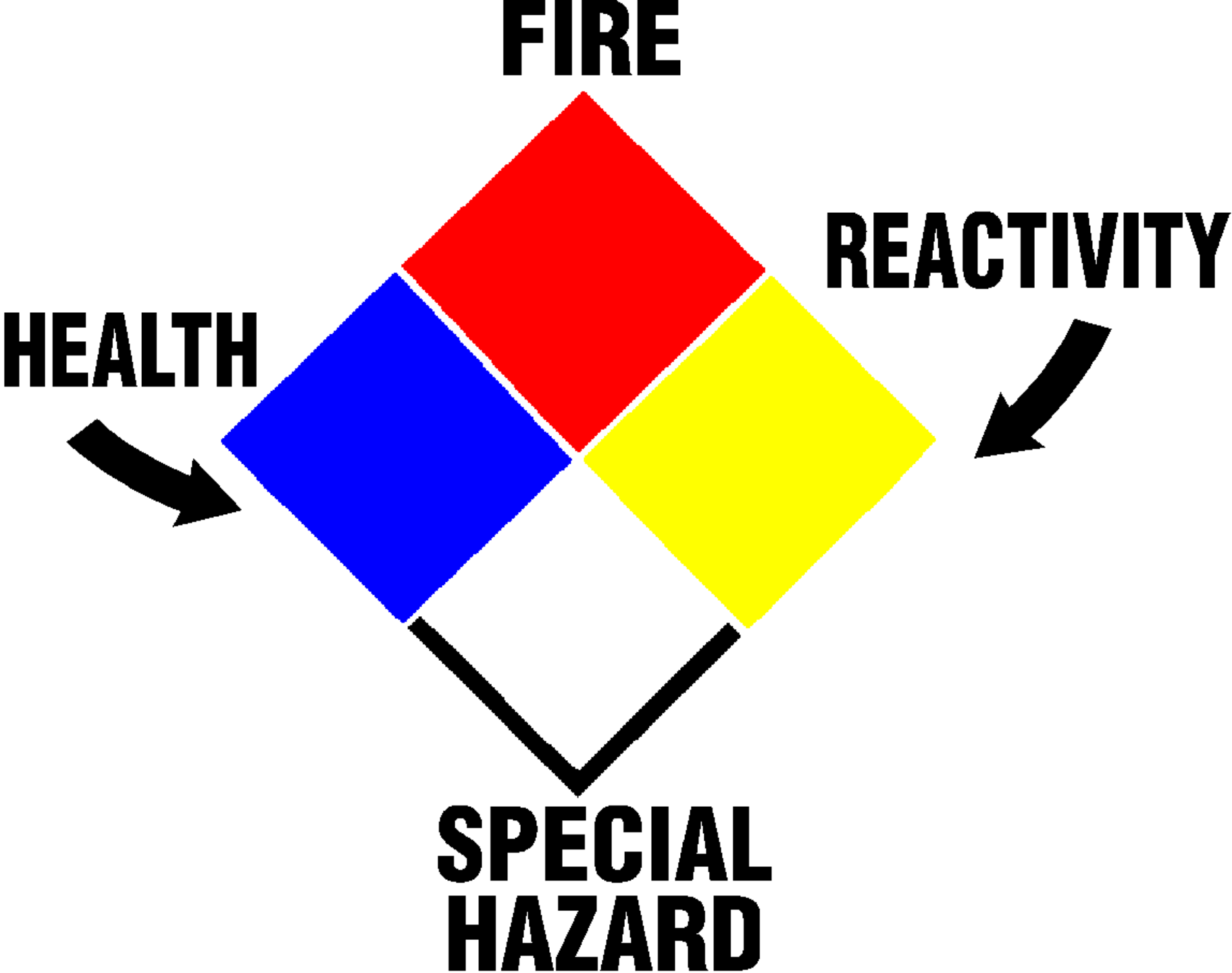


# CURRENT CLASSIFICATION— PRIOR NAME TO 1/1/91

- DIVISION 1.1 – CLASS A
- DIVISION 1.2 – CLASS A OR B
- DIVISION 1.3 – CLASS B
- DIVISION 1.4 – CLASS C
- DIVISION 1.5 – BLASTING  
AGENTS
- DIVISION 1.6 – N/A HAZARD  
CLASS

# NFPA 704 DIAMOND





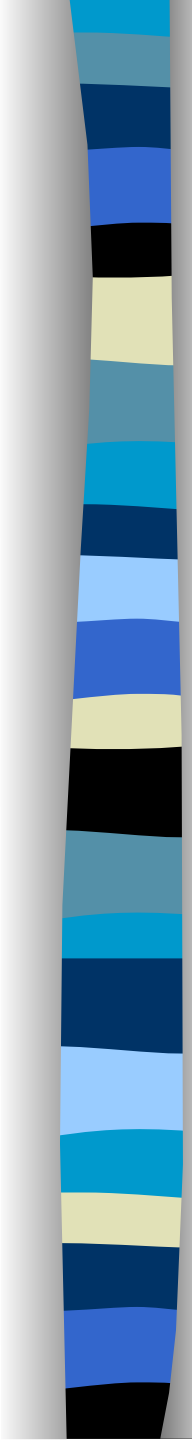


**4 EXTREME**

**3 SERIOUS**

**2 MODERATE**

**0 MINIMAL**



# HM ACQUISITION CONTROLS

- SUPPLY FUNCTION
- OSH APPROVAL
- ENSURE PPE IS ADEQUATE
- MONITOR HM USAGE



# HAZMAT HANDLING

- Train employees
- Provide P P E
- Provide ventilation



# *STORAGE OF HM*

- STORAGE COMPLIANCE
- INCOMPATABILITY
- SPILL CONTROL



# RECORDKEEPING AND REPORTING

- MAINTENANCE OF HAZCOM TRAINING
- MAINTAIN WORKPLACE MONITORING RECORDS





# Disposal of HAZMAT

- Federal, State, Local and EPA Regulations
- Local Navy Regulations
- Command Procedures

# Review and Summary

